

Work Order ID 164530

Thursday, July 20, 2017 8:52:41 AM

164530

Page 1

Item ID: D4634-145 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Aft, Center Ceiling Replacement Panel Assembly
 Start Date: 7/20/2017 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 7/21/2017 Req'd Qty: 1.00 *1* Customer:
 Reference:

Approvals: Process Plan: [Signature] Date: JUL 20 2017 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
 Run Start *NR1*
 Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4634	G								

100 0.00
 100
 HandThermo Memo 0.83
 Hand Finishing Thermoforming ~~Pick Kit~~

105 TRIM PANEL TO DWG. SPECS. DAS 07 9-89 17-07-21
 110 0.00
 110 Small Fab Memo 1.31
 Small Fab Assemble as per Dwg D4634-145

1- Scuff bonding surface to eliminate in-perfections and increase bonding and clean with wash& wipe

2- Locate and glue down Channel Assy, angles, brackets, and mounting pads using 3M Plastic welder II.

Batch # M137679

Expiry Date Sept 27/17

3- Apply labels as per Dwg. and seal with 3M 3950 edge sealer

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
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Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

Work Order ID 164530

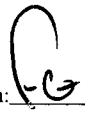
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
125	QC5- Inspect part completeness to step on W/O	0.00							
125									
QC	Memo	0.02				1			28
Quality Control									17-07-21
130	Identify as per dwg & Stock Location: 	0.00							
130									
Packaging	Memo	0.01							
Packaging									JUL 21 2017
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.10							17/7/24 
Quality Control									

JUL 21 2017

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Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER : _____						
Misidentified ☐	☐	Past Due ☐							

Picklist Print

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Work Order ID: 164530

164530

Parent Item: D4634-145

D4634-145

Parent Item Name: Aft, Center Ceiling Replacement Panel Assembly

Start Date: 7/20/2017

Required Date: 7/21/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev. A 12/08/09 New Issue DL
12/11/08 Document release DL VERIFIED BY:JLM
Dwg Update DL verf: DD
DL
DL
DL
IPP Rev B
IPP Rev C 13/07/09
IPP Rev D Dwg Update 13/12/23
IPP REV E Dwg update 14/01/09
IPP Rev F Dwg. update 14/02/03
IPP Rev G Dwg. Update 15/01/27 DL

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4636-5 *D4636-5* Bracket		Manufactured	No			100	Each	19.0000	1	1			DAS 07 9-89 17/07/21
				<u>Location</u>				<u>Loc Qty</u>					
				ST115				19					
				154916				19		1			
D4712-1 *D4712-1* Bracket		Manufactured	No			100	Each	4.0000	1	1			DAS 07 9-89 17/07/21
				<u>Location</u>				<u>Loc Qty</u>					
				MF004				4					
				163711				4		1			
D5021-5 *D5021-5* Foam, Center Panel, Aft		Manufactured	No			100	Each	3.0000	1	1			Wh 17/07/21
				<u>Location</u>				<u>Loc Qty</u>					
				ST479a				3					
				164048				3		1			

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Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

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Page 2

Work Order ID: 164530

164530

Parent Item: D4634-145

D4634-145

Parent Item Name: Aft, Center Ceiling Replacement Panel Assembly

Start Date: 7/20/2017

Required Date: 7/21/2017

Start Qty: 1.00

Required Qty: 1.00

MS20426AD3-4

Purchased

No

100

Each

7,446.000

4

4

MS20426AD3-4

RIVET

**

DAS
07
9-89

17/07/21

Location

Loc Qty

Loc Code

GA

5872

m134294

1921

m136444

3951

ST312

1574

m134294

1574

4

MS20426AD4-6

Purchased

No

100

Each

1,708.000

2

2

MS20426AD4-6

Rivet

**

DAS
07
9-89

17/07/21

Location

Loc Qty

Loc Code

CCK004

979

M137851

979

GA

539

M134502

25

M137851

514

ST311

190

M136537

190

2

MS21059L08

Purchased

No

100

Each

115.0000

2

2

MS21059L08

Nut

**

DAS
07
9-89

17/07/21

Location

Loc Qty

Loc Code

ST300

115

m134943

15

m136554

100

2

D4634-5

Manufactured

No

100

Each

0.0000

1

1

D4634-5

Aft, Center Ceiling Panel

**

163177 164561

Wh
17/07/21

Thursday, July 20, 2017 8:52:40 AM

Shop Packet Print

Page 2

DQA: _____ Date: _____

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QA Closed: _____ Date: _____

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Date : _____		Step #: _____		QTY Effective : _____			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
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Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 164530

164530

Parent Item: D4634-145

D4634-145

Parent Item Name: Aft, Center Ceiling Replacement Panel Assembly

Start Date: 7/20/2017

Required Date: 7/21/2017

Start Qty: 1.00

Required Qty: 1.00

D4647-1

Manufactured No

100

Each

5.0000

1

1

D4647-1

Doubler

**

DAS
07
9-89

Location

Loc Qty

Loc Code

MF004

5

155284

5

D4664-5

Manufactured No

100

Each

21.0000

6

6

D4664-5

Spacer

**

DAS
07
9-89

Location

Loc Qty

Loc Code

MF004

21

155824

21

D4732-17

Manufactured No

100

Each

3.0000

1

1

D4732-17

Label

**

DAS
07
9-89

Location

Loc Qty

Loc Code

MF005

3

159497

3

D4732-23

Manufactured No

100

Each

3.0000

1

1

D4732-23

Label

**

DAS
07
9-89

Location

Loc Qty

Loc Code

MF005

3

123211

3

D4732-27

Manufactured No

100

Each

3.0000

1

1

D4732-27

Label

**

DAS
07
9-89

Location

Loc Qty

Loc Code

MF005

3

123213

3

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Shop Packet Print

Page 3

DQA: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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164530

Parent Item: D4634-145

D4634-145

Parent Item Name: Aft, Center Ceiling Replacement Panel Assembly

Start Date: 7/20/2017

Required Date: 7/21/2017

Start Qty: 1.00

Required Qty: 1.00

MPNY-750S-9-C

Purchased

No

100

Each

619.0000

9

9

MPNY-750S-9-C

**

DAS
07
9-89

Mounting Pad

17/07/21

Location

Loc Qty

Loc Code

ST569

619

M130423

619

9

DQA: _____ Date: _____



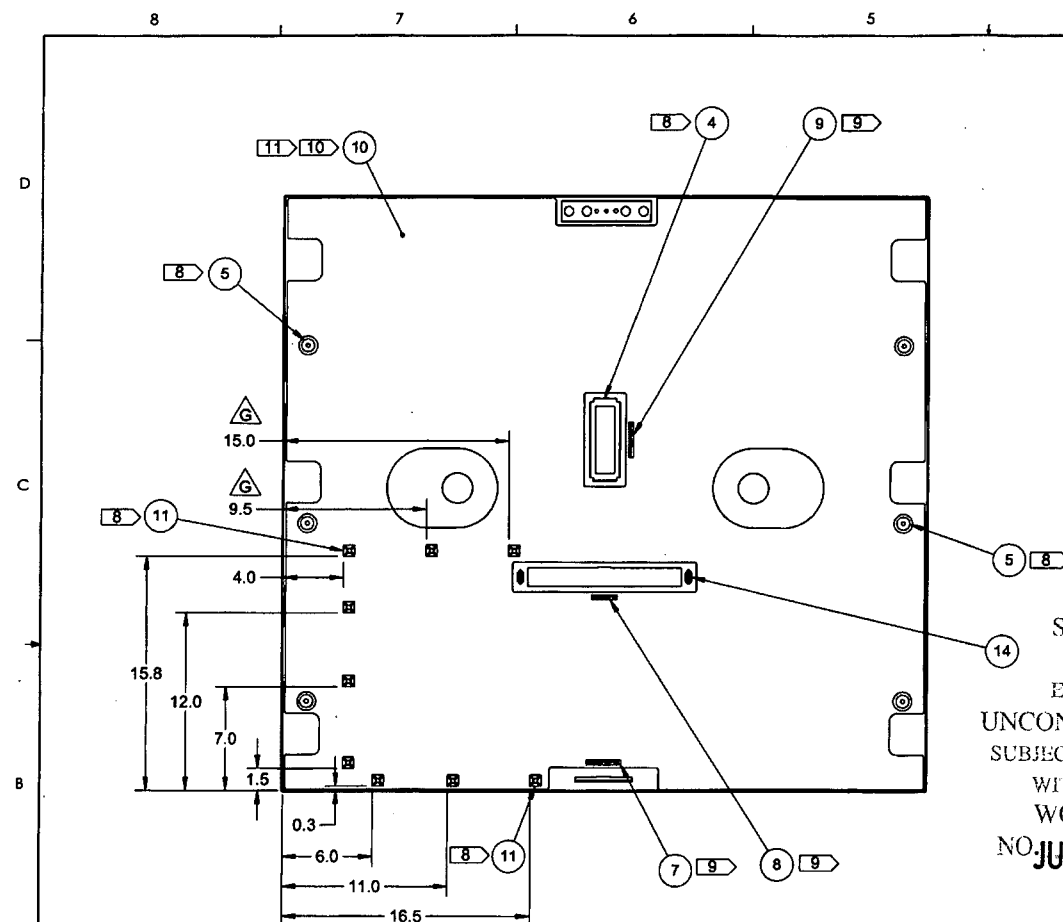
WORK ORDER NON-CONFORMANCE / UPDATE

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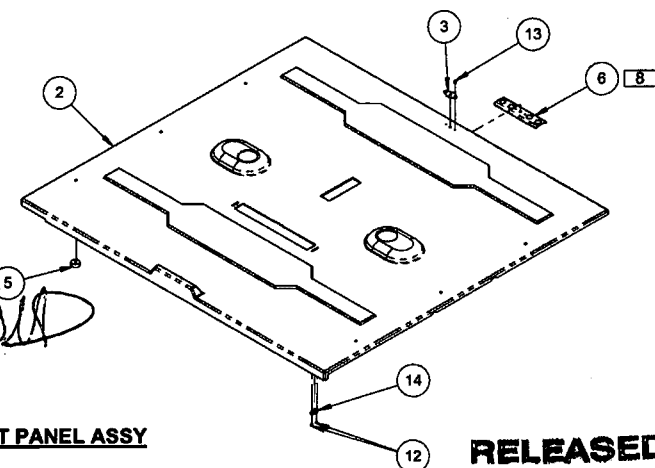
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								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐				Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐				Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐				Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐											
OTHER : ☐																									

ITEM	QTY -145	P/N	DESCRIPTION
1	X	D4634-145	AFT, CENTER CEILING REPLACEMENT PANEL ASSY
2	1	D4634-5	AFT, CENTER CEILING PANEL
3	1	D4636-5	BRACKET
4	1	D4647-1	DOUBLER
5	6	D4664-5	SPACER
6	1	D4712-1	BRACKET
7	1	D4732-17	LABEL
8	1	D4732-23	LABEL
9	1	D4732-27	LABEL
10	1	D5021-5	FOAM, CENTER PANEL, AFT
11	9	MPNY-750S-9-C	MOUNTING PAD
12	4	MS20426AD3-(4)	RIVET, SOLID, CSK
13	2	MS20426AD4-(6)	RIVET, SOLID, CSK
14	2	MS21059L08	NUT PLATE



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED
SUBJECT TO AMEND
WITHOUT NOTICE
WG/MS/145
NO 16483018
JUL 20 2017

D4634-145 AFT, CENTER CEILING REPLACEMENT PANEL ASSY



RELEASED
2015 JAN 26

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A
- 8) APPLY A BEAD (0.20 TO 0.30 WIDE) OF DEVCON PLASTIC WELDER II (0.25 INSIDE OF BOTH EDGES OF PART) TO BOND D4647-1 & MPNY-750S-9C. WAIT FOR 2 TO 4 HOURS FOR FUNCTIONAL CURE.
LOCATE D4647-1 IN LINE WITH RECTANGULAR OPENING
- 9) LOCATE LABELS AS SHOWN, SEAL LABELS USING 3950 EDGE SEALER OVER LABEL TOP SURFACE
- 10) APPLY AN EVEN COAT OF 3M SCOTCH WELD 1300L CONTACT ADHESIVE TO BOND D5021-5 FOAM CORE TO INSIDE OF PANEL
- 11) CENTER D5021-5 FOAM ON D4634-5

APPROVED

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	AK	DRAWING NO.	REV. G
MFG. APPR.	DL	D4634	SHEET 9 OF 17
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	CENTER CEILING PANELS	NTS
DATE	14.11.28	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

B DART AEROSPACE LTD.
I 1270 ABERDEEN STREET
L HAWKESBURY ON K6A 1K7
L CA
T Attn: ROBERT ABOUD
O Buyer Contact: ROBERT ABOUD

S DART AEROSPACE
H 1270 ABERDEEN STREET
I HAWKESBURY ON K6A 1K7
P CA
T Attn: ROBERT ABOUD
O

Purchase Order
PO36790-REPLACE
Carrier Account #
959R4V

Sales Order
SO-019301

Incoterms

Ship Via

UPS CANADA LTD. - Express Saver - WW Saver

Payment Method
PPD
Tracking Number

Item Number - Revision Description

D4634-5P - Rev.: G AFT, CENTER CEILING PANEL

HS Code: 3920.61.1000 - OTHER Country of Origin : CA

Quantity UOM
Shipped

1 EA

MATERIAL LOT#
MLEXS.093 - F6006-07
M135517
AB

Number of Containers

1

Gross Weight

5.00

Shipped By

ih